Challenge #17

Powder solution to absorb liquids of different densities facilitating their disposal

CONTEXT AND PROBLEM

Firm 17* has developed Product A*, a spray can that, through a gel, instantly thickens animal **excrement** (urine and feces), neutralizing odors and releasing a pleasant scent. This process, although effective, involves the production of additional waste, as the gel must be removed with a tissue which then needs to be disposed of.
The company is looking for an innovative powder solution (in substitution of the currently used gel) that can **absorb liquids** of different densities, allowing **excrement collection** and facilitating their disposal, without generating additional waste.
The powder should be **environmentally friendly** and **easily disposable**, allowing safe dispersion into the environment without creating pollution.
Thus, Firm 17* is seeking a Solver capable of working on the **product's chemical composition**, ensuring the same **effectiveness of the gel** while minimizing its **environmental impact**.
Additionally, the company collaborates with an **external partner** for the production of the can, and it may be necessary to **involve this third-party stakeholder** in the **development process**.

OBJECTIVES

- Scouting for a powder solution to absorb liquids of varying densities, enabling the efficient collection of animal excrements without creating additional waste.
- Looking for solutions with a TRL 3 (Experimental proof of concept).
- Firm 17* is interested in co-developing a PoC or launching pilot projects together with the Solver.
- The resolution of this challenge contributes to the achievement of SDG 11 (Sustainable Cities and Communities) and 12 (Responsible Consumption and Production).

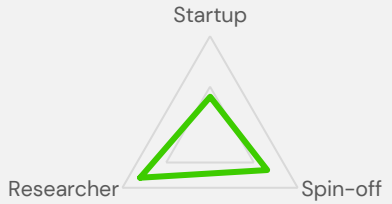
THE CHALLENGE

Powder solution to absorb liquids of different densities

THEMATIC CLUSTER

Sustainable Materials, Products & Processes

SOLVER AND KEY SDGs



KEY WORDS

#EcofriendlyWaste
#AnimalWasteInnovation
#SustainableSolutions

**Company and product name anonymized - will be revealed after registration to the program*